

Table 1. Comparison of Assumptions, Constructed and Operational Features of the LEC 2020 Plan Base Cases

Feature	1995 (95BSR; 2/00)	2020 (2020BSR; 2/00)	2020 with Restudy (2020WR; 8/99)	LEC-1 (2/00)
Land Use for urban and agricultural areas	Best available information for 1995 Condition	Projections based on County Comprehensive Plans. EAA adjusted to reflect construction of STA's.	Projections based on County Comprehensive Plans. Adjusted to reflect construction of STA's. and Reservoirs as per Restudy.	Projections based on County Comprehensive Plans. Adjusted to reflect construction of STA's. and Reservoirs as per Restudy
Vegetation Cover for natural areas	Best available information; generally reflect conditions between 1990-1995.	Same as 1995. Best available information; generally reflect conditions between 1990-1995.	Same as 1995. Best available information; generally reflect conditions between 1990-1995.	Same as 1995. Best available information; generally reflect conditions between 1990-1995.
LOSA/EAA Mean Annual Supplemental Irrigation Demands	Approx 599,000 ac ft/yr	Approx 667,000 ac ft/yr	Approx 603,000 ac ft/yr	Approx 578,000 ac ft/yr
Lake O Regulation Schedule	Run 25 Schedule	WSE Schedule	Modified Run 25 Schedule	Modified WSE Schedule
Lake Okeechobee Supply-side Management for LOSA	Yes	Yes	Yes	Yes
Caloosahatchee River Basin Demands- includes municipal demands	Demands Based on Historical Records	25% increase over 1995 average annual demands	25% increase over 1995 average annual demands	25% increase over 1995 average annual demands
Caloosahatchee Basin Backpumping	N/A	N/A	As per Restudy's Comprehensive Plan	Reduced to zero as per Caloosahatchee Water Management Plan
St Lucie Demands	Based on Historical Records	Same as 1995	Same as 1995	Same as 1995
St Lucie (C-44) Reservoir	N/A	N/A	As per Restudy's Comprehensive Plan	Modified as per Indian River Lagoon Feasibility Study
Seminole-Brighton Tribe Demands	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr	52,000 ac-ft per year	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr
STA's associated with the EAA	No	Yes	Yes	Yes
EAA Runoff Reduction & Make-up water BMP	No runoff reduction	No runoff reduction	20% EAA Runoff Reduction	No runoff reduction
Make-up water associated with BMP's from LOK	No	No	No	No
WCAs Schedule				
• WCA 1	C&SF Interim Regulation Schedule.	C&SF Interim Regulation Schedule.	C&SF Interim Regulation Schedule.	C&SF Interim Regulation Schedule.
• WCA 2 & WCA 3	Current regulation schedule	Rain driven operations, and Modified Water Deliveries Project.	Rain driven operations	Current regulation schedule.
Everglades National Park Operations	Experimental Rainfall Delivery Plan via S-12's and S-333	As per Modified Water Deliveries Project.	As per Restudy's Comprehensive Plan	As per Restudy's Comprehensive Plan
LECSA Population for Utilities	4,755,776 persons	6,951,998 persons as per LEC Utility survey	6,951,998 persons as per LEC Utility survey	6,951,998 persons, as per LEC Utility survey

Modified 02/10/00 by bmills

Feature	1995 (95BSR; 2/00)	2020 (2020BSR; 2/00)	2020 with Restudy (2020WR; 8/99)	LEC-1 (2/00)
LECSA Public Water Supply Demands on Surficial Aquifer System and Surface Water	Actual 1995 demands: 286,429 mgy, 784.10 mgd	Projected demands based on LEC Utility survey: 443,411 mgy, 1,214.8 mgd	Projected demands based on LEC Utility survey: 443, 411 mgy, 1,214.8 mgd	Projected demands based on LEC Utility survey: 443,411 mgy, 1,214.8 mgd
LECSA Public Water Supply Wellfield Distribution	Actual 1995 locations	Utility preferred wellfield locations, as per LEC Utility survey	As per Restudy's Comprehensive Plan	Modifications to eleven utilities preferred wellfield locations (LEC Utility survey)
LECSA water shortage policy	Yes	Yes	Yes	Yes
LEC Irrigation Demands on Surficial Aquifer System	Based on land use and climatic variation.	Based on projected 2020 land use and climatic variation.	Based on projected 2020 land use and climatic variation.	Based on projected 2020 land use and climatic variation.
Operational adjustments to Meet MFL for Biscayne Aquifer	No	Yes, original MFL's modified to reflect new criteria in 6 canals: . <u>C-51@S-155</u> - 7.80; <u>C-15@S-40</u> - 7.80; <u>C-16@S-41</u> - 7.80; <u>C-6@S-26</u> - 2.00; <u>C-4@S-25B</u> - 2.20; <u>C-2@S-22</u> - 2.20 NGVD	Yes, MFL's set to original levels in all canals. <u>C-51@S-155</u> - 7.75; <u>C-16@S-40</u> - 7.75; <u>C-15@S-41</u> - 7.75; <u>C-6@S-26</u> - 2.50; <u>C-4@S-25B</u> - 2.50; <u>C-2@S-22</u> - 2.50 NGVD	Yes, original MFL's modified to reflect new criteria in 6 canals: . <u>C-51@S-155</u> - 7.80; <u>C-16@S-40</u> - 7.80; <u>C-15@S-41</u> - 7.80; <u>C-6@S-26</u> - 2.00; <u>C-4@S-25B</u> - 2.20; <u>C-2@S-22</u> - 2.20 NGVD
<ul style="list-style-type: none"> LEC Interim Plan Projects L-8 Basin Project Broward County Secondary Canal Network Miami-Dade Utility ASR Miami-Dade Reuse 	<ul style="list-style-type: none"> No No No No No 	<ul style="list-style-type: none"> Yes, as per Interim Plan Yes, as per Interim Plan 150 mgd No 	<ul style="list-style-type: none"> Yes, as per Restudy Yes, as per Restudy 150 mgd 100 mgd at West Facility 	<ul style="list-style-type: none"> Yes, as per Restudy Yes, as per Restudy 75 mgd 50 mgd at West Facility

Table 2. LEC 2020 with Restudy - Components Included in Model Simulations

ID	COMPONENT NAME	2020 w/RESTUDY COMPONENTS IN REGIONAL SFWMM v3.7	2020 w/RESTUDY COMPONENTS IN SUBREGIONAL GW MODELS	NOTES
	INDIAN RIVER LAGOON			
B	C-44 Basin Storage Reservoir	X		Components outside of the Subregional gw models' boundaries.
UU	C-23,C-24, C-25, N&S-Fork Reservoir	X		
	EVERGLADES AGRICULTURE AREA			
G	EAA Reservoirs	X		
	LAKE OKEECHOBEE HEADWATERS STORAGE			
W	Taylor Creek Nubbin Slough	X		
A	North of Lake Okeechobee Storage	X		
	CALOOSAHATCHEE RIVER BASIN			
D	C-43 Basin Storage & ASR	X		
DDD	Caloosahatchee Backpumping w/STA	X		
	WATER PRESERVE AREA COMPONENTS			
R	C-9 STA/Impoundment	X	X	
Q	Western C-11 Impoundment/Diversion	X	X	
BB	Dade/Broward Levee/Pennsucco	X	X	
M	Hillsboro Impoundment & ASR (a.k.a. Site 1 Impoundment)	X	X	
OPE	ACME Basin B Discharge	X	X	
OPE	Protect wetlands (Strazulla)	X	X	
OPE	Pal-Mar/Corbett Hydroperiod Restoration	X	X	
X	C-17 Backpumping & Treatment	X	X	
Y	C-51 Backpumping & Treatment	X	X	
U	Bird Drive Recharge Area	X	X	
	LEVEE SEEPAGE MGMT			
V	L31 N Levee Improvements	X	X	
O	WCA-3A &3B Seepage Mgmt	X	X	
FF	S356 Structures	X	X	
OO	C-111 Operational Modifications	X	X	
	STORAGE WITH ASR COMPONENTS			
K	L-8 Basin	X	X	
GGG	C-51 & southern L-8 Reservoir	X	X	
LL	C-51 Region. Groundwater ASR	X	X	
VV	Agricultural Reserve Reservoir & ASR	X	X	

ID	COMPONENT NAME	2020 w/RESTUDY COMPONENTS IN REGIONAL SFWMM v3.7	2020 w/RESTUDY COMPONENTS IN SUBREGIONAL GW MODELS	NOTES
SS	Reroute Miami-Dade Water Supply Deliveries	X	X	
AA	Additional S-345 Structures (L67 A)	X	X	
QQ	WCA-3 Decomp. & Sheetflow Enhance.	X	X	
II	G404	X	X	
	BISCAYNE BAY			
FFF	Biscayne Bay Coastal Wetlands (FFF&OPE)	X	X	
HHH	West Miami-Dade Reuse	X	X	
BBB	South Miami-Dade Reuse	X	X	
	LOWER EAST COAST			
AAA	LEC Utility Water Conservation			
CC	Broward County Secondary Canal System	X	X	
T	C-4 Divide Structure	X	X	
WW	C-111 N Spreader	X	X	
	WESTERN BASIN			
CP	Miccosukee Water Management Plan	X		Components outside of the Subregional gw models' boundaries.
RR	Flow to NW & Central WCA-3A	X		
CCC	Big Cypress/ L-28 Interceptor Modifications	X		
OPE	Seminole Tribe BC Water Conserv. Plan			
GG	LAKE OKEECHOBEE ASR	X		
	STAND ALONE OPES			
OPE	LO Watershed WQ Treatment Facility			Components cannot be simulated with these tyoes of hydrologic models.
OPE	LO Tributary Sediment Dredging			
CP	Lake Istakpoga Regulation Schedule			
CP	Southern Golden Gates Hydrologic Rest.			
CP	Southern CREW Project			
CP	Lake Trafford Restoration			
OPE	Lake Worth Lagoon Restoration			
OPE	Pineland/Hardwood Hammocks			
OPE	Melaleuca Erad. Project & Other Exotics			
CP	Florida Keys Tidal Restoration			
CP	Henderson Creek/Belle Meade Restoration			
CP	Winsburg Farms Wetlands			